Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- I. A pharmaceutical composition comprising an immunogenic Aβ fragment linked to a carrier molecule to form a conjugate, wherein the carrier molecule promotes an immune response comprising antibodies to the Aβ fragment.
- 2. (Currently Amended) The <u>pharmaceutical</u> composition of claim 1, wherein the A β fragment is from the N-terminal half of A β .
- 3. (Currently Amended) The pharmaceutical of claim 2, wherein the $A\beta$ fragment is $A\beta1-5$.
- 4. (Currently Amended) The <u>pharmaceutical</u> of claim 3, wherein Aβ1-5 consists of the first five N-terminal amino acids of SEQ ID NO:1.
- 5. (Currently Amended) The <u>pharmaceutical</u> of claim 2, wherein the $A\beta$ fragment is $A\beta1$ -6.
- 6. (Currently Amended) The <u>pharmaceutical</u> of claim 5, wherein Aβ1-6 consists of the first six N-terminal amino acids of SEQ ID NO:1.
- 7. (Currently Amended) The <u>pharmaceutical</u> of claim 2, wherein the $A\beta$ fragment is $A\beta 1-12$,
- 8. (Currently Amended) The <u>pharmaceutical</u> of claim 7, wherein Aβ1-12 consists of the first 12 N-terminal amino acids of SEQ ID NO:1.
- 9. (Currently Amended) The <u>pharmaceutical</u> of claim 1, wherein the carrier molecule is a diphtheria toxoid.

- (Currently Amended) The <u>pharmaceutical</u> of claim 9, wherein the diphtheria toxoid is CRM 197.
- 11. (Currently Amended) The <u>pharmaccutical</u> of claim 2, wherein the carrier molecule is a diphtheria toxoid.
- 12. (Currently Amended) The <u>pharmaceutical</u> of claim 11, wherein the diphtheria toxoid is CRM 197.
- 13. (Currently Amended) The <u>pharmaceutical</u> of claim 12, wherein the Aβ fragment is Aβ1-5.
- 14. (Currently Amended) The <u>pharmaceutical</u> of claim 13, wherein Aβ1-5 consists of the first five N-terminal amino acids of SEQ ID NO:1.
- 15. (Currently Amended) The <u>pharmaceutical</u> of claim 12, wherein the Aβ fragment is Aβ1-6.
- 16. (Currently Amended) The <u>pharmaceutical</u> of claim 15, wherein Aβ1-6 consists of the first six N-terminal amino acids of SEQ ID NO:1.
- 17. (Currently Amended) The <u>pharmaceutical</u> of claim 12, wherein the Aβ fragment is Aβ1-12.
- 18. (Currently Amended) The <u>pharmaceutical</u> of claim 17, wherein Aβ1-12 consists of the first 12 N-terminal amino acids of SEQ ID NO:1.
- 19. (Currently Amended) The <u>pharmaceutical</u> of claim 1, which comprises greater than 10 μg of the A β fragment.
- 20. (Currently Amended) The <u>pharmaceutical</u> of claim 1, which comprises at least 20 μ g of the A β fragment.

- 21. (Currently Amended) The <u>pharmaceutical</u> of claim 1, which comprises at least 50 μ g of the A β fragment.
- 22. (Currently Amended) The <u>pharmaceutical</u> of claim 1, which comprises at least 100 μ g of the A β fragment.
- 23. (Currently Amended) The pharmaceutical of claim 10, which comprises greater than 10 μ g of the $A\beta$ fragment.
- 24. (Currently Amended) The <u>pharmaceutical</u> of claim 10, which comprises at least 20 μg of the Aβ fragment.
- 25. (Currently Amended) The <u>pharmaceutical</u> of claim 10, which comprises at least 50 μg of the A β fragment.
- 26. (Currently Amended) The <u>pharmaceutical</u> of claim 10, which comprises at least 100 μg of the Aβ fragment.
- 27. (Currently Amended) The <u>pharmaceutical</u> of any one of claims 2, 3, 5, or
 7, which comprises greater than 10 μg of the Aβ fragment.
- 28. (Currently Amended) The <u>pharmaceutical</u> of any one of claims 2, 3, 5, or 7, which comprises at least 20 μg of the Aβ fragment.
- 29. (Currently Amended) The <u>pharmaceutical</u> of any one of claims 2, 3, 5, or
 7, which comprises at least 50 μg of the Aβ fragment.
- 30. (Currently Amended) The <u>pharmaceutical</u> of any one of claims 2, 3, 5, or
 7, which comprises at least 100 μg of the Aβ fragment.
- 31. (New) The pharmaceutical composition of claim 1, wherein the conjugate is expressed as a fusion protein.

- 32. (New) The pharmaceutical composition of claim 31, wherein the amino terminus of the $A\beta$ fragment is linked to the carrier molecule.
- 33. (New) The pharmaceutical composition of claim 31, wherein the carboxyl terminus of the Aβ fragment is linked to the carrier molecule.
- 34. (New) The pharmaceutical composition of claim 1, wherein the $A\beta$ fragment is linked to the carrier molecule by chemical crosslinking,